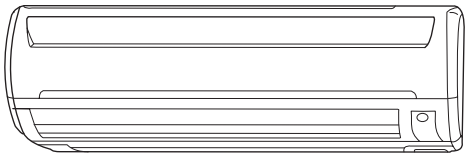
USER'S MANUAL

MITSUBISHI HEAVY INDUSTRIES, LTD.

AIR CONDITIONER

ENGLISH



SRK20ZD-S1
SRK25ZD-S1
SRK35ZD-S1
SRK50ZD-S1

SRK20HD-S1
SRK28HD-S1
SRK40HD-S1

SRK20CD-S1
SRK28CD-S1
SRK40CD-S1

MANUEL DE L'UTILISATEUR — FRANÇAIS
CLIMATISEUR

ANWENDERHANDBUCH — DEUTSCH
KLIMAGERÄT

ISTRUZIONI PER L'USO — ITALIANO
CONDIZIONATORE D'ARIA

MANUAL DEL PROPIETARIO — ESPAÑOL
ACONDICIONADOR DE AIRE

GEBRUIKERSHANDLEIDING — NEDERLANDS
AIRCONDITIONING

MANUAL DO UTILIZADOR — PORTUGUÊS
APARELHO DE AR CONDICIONADO

ΟΔΗΓΙΕΣ ΧΡΗΣΗΣ — ΕΛΛΗΝΙΚΑ
ΚΛΙΜΑΤΙΣΤΙΚΟ

РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ — РУССКИЙ
КОНДИЦИОНЕР ВОЗДУХА

KULLANIM KILAVUZU — TÜRKÇE
SPLİT KLİMA

CE

This air conditioner complies with **EMC** Directive 89/336/EEC, LV Directive 73/23/EEC.

Ce climatiseur est conforme à la Directive **EMC**: 89/336/EEC, LV Directive 73/23/EEC.

Dieses Kimagerät erfüllt die **EMC** Direktiven 89/336/EEC, LV Direktiven 73/23/EEC.

Questo condizionatore d'aria è conforme alla Direttiva **EMC**: 89/336/EEC, LV Direttiva 73/23/EEC.

Este acondicionador de aire cumple con la directiva **EMC**: 89/336/EEC, LV Directiva 73/23/EEC.

Deze airconditioner voldoet aan **EMC** Directive 89/336/EEC, LV Directive 73/23/EEC.

Este aparelho de ar condicionado está em conformidade com a Directiva **EMC** 88/336/CEE e a Directiva LV 72/23/CEE.

Αυτό το κλιματιστικό είναι σύμφωνο με τις προδιαγραφές της Οδηγίας **EMC** 88/396 και της Οδηγίας LV 73/23 της ΕΟΚ.

RWA012A242

Thank you for purchasing a MITSUBISHI HEAVY INDUSTRIES, LTD. Air Conditioner. To get the best long-lasting performance, read and follow this User's Manual carefully before using your air conditioner. After reading, please store the Manual in a safe place and refer to it for operational questions or in the event of any irregularities.

This air conditioner is intended for domestic use.

This instruction manual contains the explanation of the heatpump air-conditioner. That of cooling-only air-conditioner shall be referred to the same explanation , with neglecting the information on heating-operation mode.

ENGLISH

An alternative refrigerant (R410A) is used in this air-conditioner. When asking the dealer for service or inspection and maintenance, explain the dealer about this matter.

Contents

Safety precautions 2
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Safety precautions

- Before starting to use the system, please read these "Safety precautions" carefully to ensure proper operation of the system.
- The safety precautions are classified as "⚠ DANGER" and "⚠ CAUTION". Precautions as shown in the column "⚠ DANGER" indicate that improper handling could have dramatic consequences like death, serious injury, etc. Nevertheless, even precautions as shown in the column "⚠ CAUTION" might pose a serious problem, depending on the circumstances. Please observe these precautions with great care, since they are essential to your safety.
- Symbols which appear frequently in the text have the following meaning:

	Strictly prohibited		**Observe instructions with great care**		**Provide positive earthing**

- When you have read the instruction manual, please keep it near at hand for consultation. If someone else takes over as operator, make certain that the manual is also passed on to the new operator.

▮ INSTALLATION PRECAUTIONS

⚠ DANGER

The system is meant for domestic, residential etc. use.

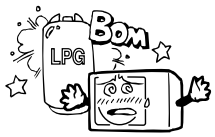
If used in inferior environments, such as an engineering workplace, the equipment may function poorly.

The system must be installed by your dealer or a qualified professional.

It is not advisable to install the system yourself, as faulty handling may cause leakage of water, electric shock or fire.

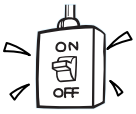
⚠ CAUTION

Do not install near places where inflammable gas may leak.



Gas leaks may cause fire.

Depending on the place of installation, a circuit breaker may be necessary.



If you don't fit a circuit breaker, you may cause an electric shock.

Make sure that you drain the hose properly, so that all the water has dripped out.

Negligence may cause flooding in the room resulting in wet furniture.

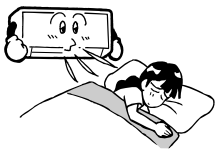
Make sure that the system has been properly earthed.

Earth cables should never be connected to a gas pipe, municipal water pipe, lightning conductor or telephone earth cable. Incorrect installation of the earth cable may produce an electric shock.

▮ OPERATION PRECAUTIONS

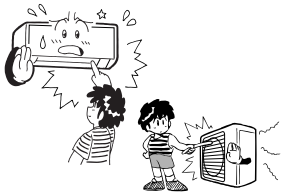
⚠ DANGER

Do not expose yourself to the cooling air for prolonged periods.



This could affect your physical condition and cause health problems.

Do not insert anything into the air inlet.



This may cause injury, as the internal fan rotates at high speed.

Store the remote controller out of reach of infants.

Failure to observe this may result in the batteries being swallowed or other accidents.

⚠ CAUTION

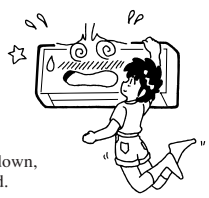
Only use approved fuses.

Use of steel or copper wire instead of an approved fuse is strictly forbidden, as it may cause a breakdown or fire.

Do not handle the switches with wet hands.

This may cause an electric shock.

Don't swing from the system.

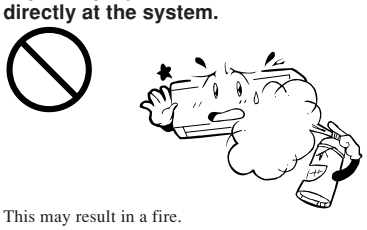


If the system falls down, you may get injured.

Safety precautions

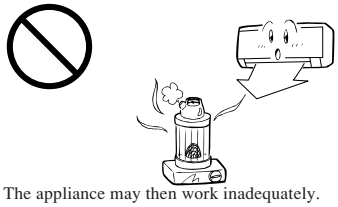
⚠ CAUTION

Do not place a combustible insecticide or paint spray near the blower, nor aim it directly at the system.



This may result in a fire.

You should not expose any combustion appliance directly to the air stream of the air-conditioner.



The appliance may then work inadequately.

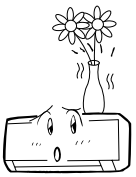
Do not wash the air-conditioner with water.

This could cause an electric shock.

The system should only be used for its original purpose and not for anything else like, for instance, preservation of food, plants or animals, precision devices or works of art.

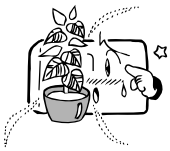
The system is only intended for use in ordinary domestic rooms. Any other use of the system may damage the quality of food, etc.

Do not place anything containing water, like vases, on top of the unit.



Water entering the unit could damage the insulation and therefore cause an electric shock.

Do not install the system at a place where the air stream of the blower is aimed directly at plants or animals.

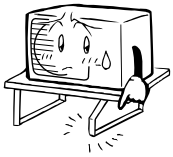


This will damage their health.

Do not sit on the outdoor unit nor put anything on it.

If the unit falls down or things drop off it, people could get hurt.

After a long period of use, check the unit's support structure from time to time.

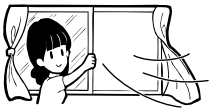


If you don't repair any damage straightaway, the unit may fall down and cause personal injury.

Do not touch the aluminum fins on the air heat exchanger.

Failure to observe this may result in injury.

If you operate the system together with a combustion appliance, you must regularly ventilate the indoor air.



Insufficient ventilation may cause accidents due to oxygen deficiency.

Stand firmly on a stepladder or other stable object when removing the inlet grill and filters.

Failure to observe this may result in injury through insecure objects toppling over.

When you clean the system, stop the unit and turn off the power switch.

Never clean the unit while the internal fan is rotating.

Do not place objects near the outdoor unit or allow leaves to gather around the unit.

If there are objects or leaves around the outdoor unit, small animals may enter unit and contact electrical parts resulting in break down, emission of smoke or flame.

▮ PRECAUTIONS FOR TRANSFER OR REPAIRS

⚠ DANGER

Consult your dealer for repairs to the system.

Wrong repairs could cause an electric shock, fire, etc.

If the air-conditioner is moved elsewhere, contact your dealer or a professional fitter.

Faulty installation may cause water leakage, electric shock, fire, etc.

If you notice anything abnormal (smell of burning, etc.), stop the system, turn off the power switch and consult your dealer.

Continued use of the system in abnormal circumstances may result in malfunctioning, electric shock, fire, etc.

Choice of operations and features

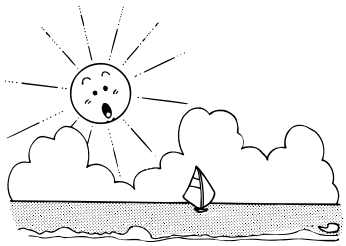
Choice of operations

HEAT Page 9

The unit draws in heat from the outside air, transfers it inside and heats the room.

COOL Page 9

Cooling by extracting heat from the room.



DRY Page 9

Drying by extracting damp from the room.

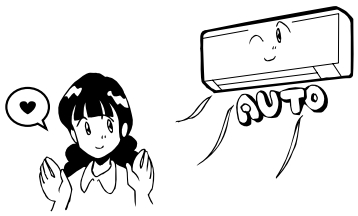
Functioning of micro-computer depends on setting and room temperatures. It dehumidifies while keeping room temperature almost constant.

FAN Page 9

Fanning by circulating room air.

AUTO Page 8

Automatic selection of operating mode.



The Auto mode automatically selects the operation mode (HEAT, COOL or DRY), depending on the room temperature when switched on.

Characteristics

Amenity facility Page 12

When using the timer to switch on, the system become operational shortly before the set time, depending on the room temperature so that the desired temperature is reached at the set time.

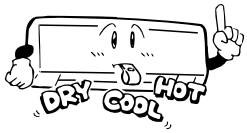
TIMER procedure Page 11,12

There are two timers, for ON and OFF. They can be set as desired.

HI POWER mode Page 9

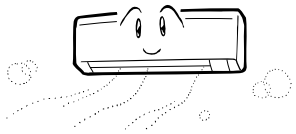
Turning up the power operates the air conditioner in the power cooling and heating mode.

Adjustment of airflow Page 10



- AIR SCROLL
  This function sets the unit at the most suitable angle for blowing, imitating a natural breeze.
- MEMORY FLAP
  Once the flap position has been set, the unit will memorise it and continue in the same position the next time.

ECONOMY mode Page 9

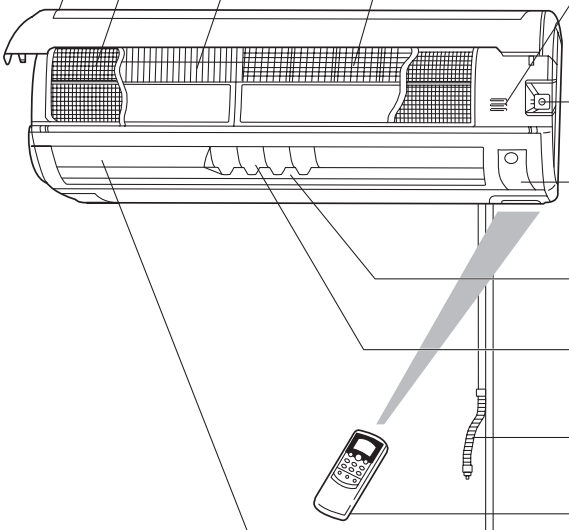


This is an economic and healthy level of operation.

Name of each part and its function

INDOOR UNIT

SRK20ZD-S1 SRK20HD-S1 SRK20CD-S1
SRK25ZD-S1 SRK28HD-S1 SRK28CD-S1
SRK35ZD-S1 SRK40HD-S1 SRK40CD-S1
SRK50ZD-S1



Air inlet grill
Draws in the indoor air.

Air filter
Removes dust or dirt from the inlet air.
Page 15

Natural enzyme filter

Photocatalytic washable deodorizing filter

Room temperature detector

Unit operation section

Unit indication section and remote control signal receiver

Air outlet
Air blows out of here.

Left/right air flow adjustment fin
Page 10

Drain hose
Drains water from the dehumidified air.

Wireless remote control
Page 7

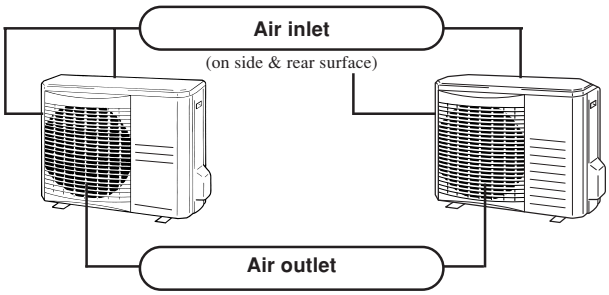
Up/down air flow direction adjustment flap
Page 10

Refrigerant piping connection electric flex

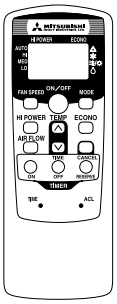
OUTDOOR UNIT

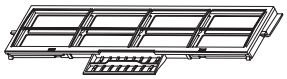
SRC20ZD-S1
SRC25ZD-S1
SRC20HD-S1
SRC20CD-S1
SRC35ZD-S1
SRC28HD-S1
SRC28CD-S1

SRC50ZD-S1
SRC40HD-S1
SRC40CD-S1

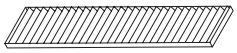


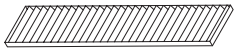
Accessories


Wireless remote control


Filter holder (Quantity: 2)
Installation sheet
Instruction manual

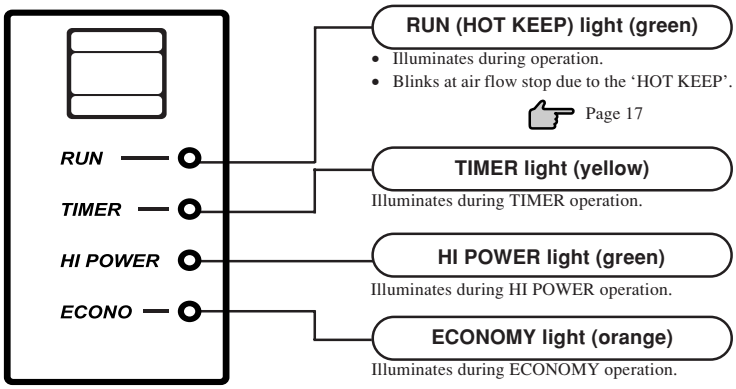
Battery (RO3×2)


Natural enzyme filter (green)


Photocatalytic washable
deodorizing filter (orange)

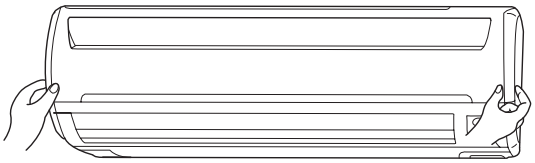
Wood screw
(for remote control mounting)

Unit indication section



How to open the air inlet grill

Place fingers at the recesses on both sides of the grill and pull up the grill to this side so that it will be opened by about 60 degrees.

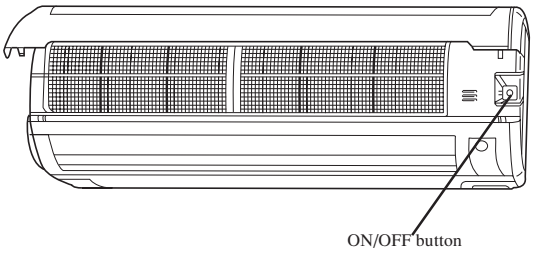


How to close the air inlet grill

Push both sides evenly and press further lightly at the center.

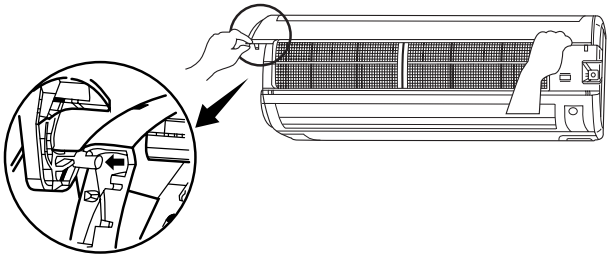
Unit ON/OFF button

In emergencies, this button can be used for turning on/off the unit when remote control is not available. Page 13

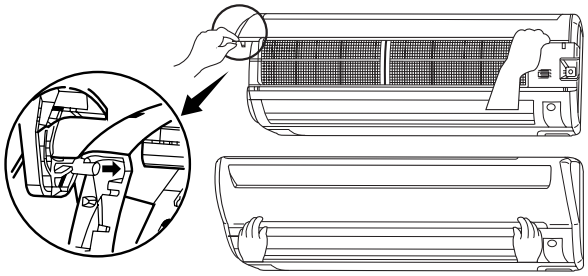


Removal, installation of air inlet grill

When removing the air inlet grill for internal cleaning or others, open the grill by 65 degrees and then pull it to this side.



Secure either the upper or lower edge of the air inlet grill by lightly pushing it in, and then close the grill.



Operation and indication section for remote control

Operation section

FAN SPEED button

Each time the button is pushed, the ■ indicator is switched over in turn.

HI POWER button

This button changes the HI POWER mode.

Page 9

AIR FLOW button

This button changes the flap mode. When pressed, this button changes the mode in the following order:

(Air scroll) (SWING)

Page 10

ON TIMER button

This button selects ON TIMER operation.

Page 11

TIME switch

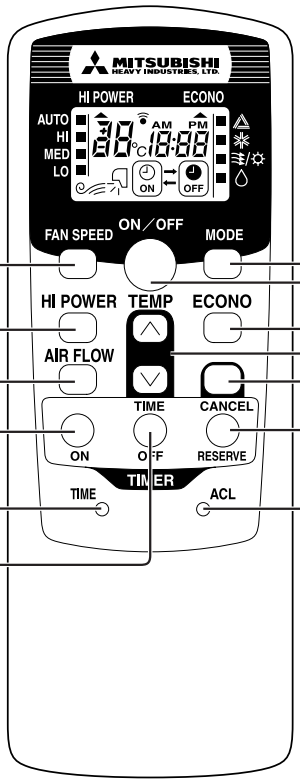
This switch for setting the time.

Page 12

OFF TIMER button

This button selects OFF TIMER operation.

Page 11



- The above illustration shows all controls, but in practice only the relevant parts are shown.

OPERATION MODE select button

Each time the button is pushed, the ■ indicator is switched over in turn.

ON/OFF button

Press for starting operation, press again for stopping.

ECONOMY button

This button changes the ECONOMY mode.

Page 9

TEMPERATURE button

This button sets the room temperature.

(This button changes the present time and TIMER time.)

CANCEL button

This button cancels the ON timer and OFF timer.

RESERVE button

This button sets the present time and TIMER time.

RESET switch

Switch for resetting microcomputer.

Page 13

Indication section

HI POWER MODE indicator

Indicates during Hi power mode operation.

TEMPERATURE Indicator

Indicates set temperature.

(Does not indicate temperature when operation mode is on AUTO)

FAN SPEED Indicator

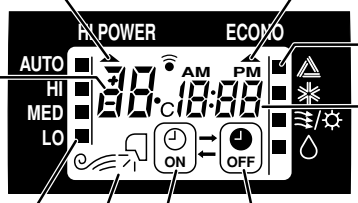
Indicates set air flow rate with ■ lamp.

AIR FLOW Indicator

Shows selected flap mode.

ON TIMER Indicator

Indicates during ON TIMER operation.



ECONOMY MODE indicator

Indicates during economy mode operation.

OPERATION MODE Indicator

Indicates selected operation with ■ lamp.

ZD, HD type:

[△ (Auto) • ❋ (Cool) • ≋/☼ (Heat) • ◊ (Dry)]

CD type:

[△ (Auto) • ❋ (Cool) • ≋/☼ (Fan) • ◊ (Dry)]

TIME indicator

Indicates present time or timer setting time.

OFF TIMER Indicator

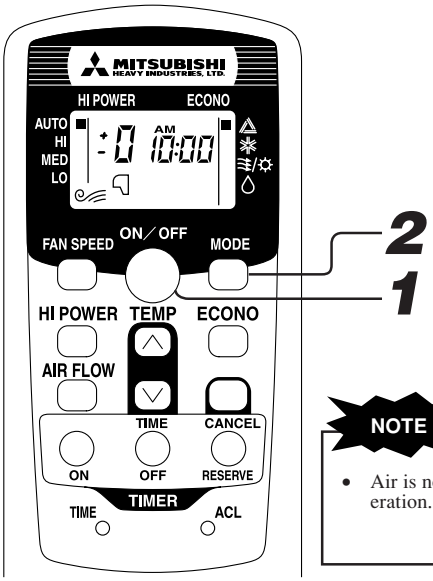
Indicates during OFF TIMER operation.

Transmission procedure

When each button on the remote control is pressed – with the remote control pointing towards the air conditioner unit – a signal is transmitted.
When the signal is received correctly, the unit will beep.

AUTO mode operation procedure

■ Automatically selects the operation mode (HEAT, DRY, COOL) depending on the room temperature when switched on.



Aim the remote control at the air conditioner.

1 **Press the ON/OFF button.**

When the unit is not in AUTO mode:

2 **Press MODE button.**

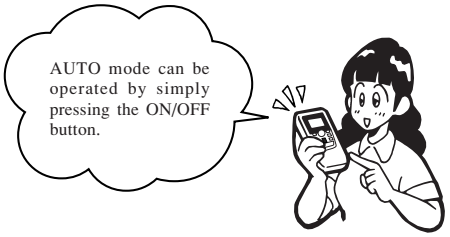
Move the [■ mark] to the △ (Auto) position.

To stop:	**Press the ON/OFF button.**

NOTE

- Air is not blowing out during the operation.

Page 17



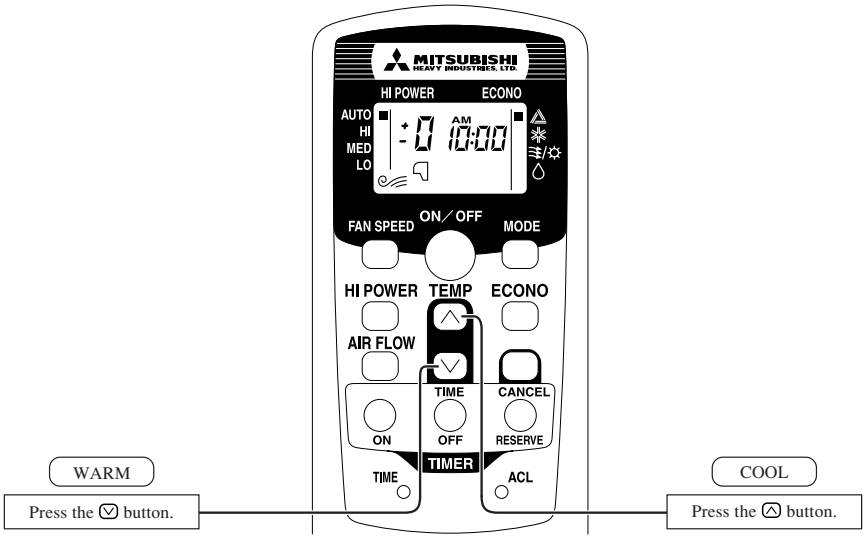
- If you don't want the AUTO mode programme, change to HEAT, DRY or COOL instead of AUTO.

Page 9

Air flow direction adjustment procedure. Page 10

Temperature adjustment during AUTO

Air temperature adjustment is possible even during automatic operation. There are 6 levels of adjustment possible with the ⌃ button or the ⌄ button.



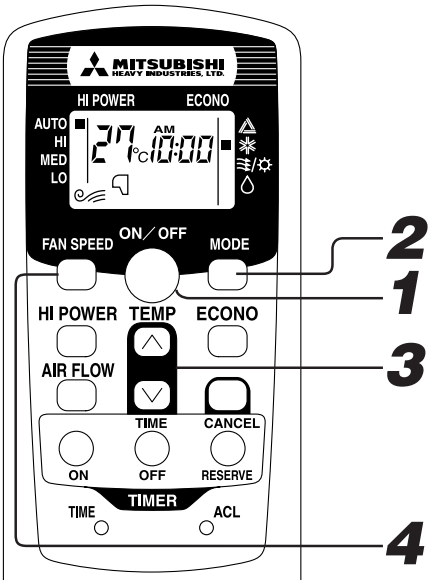
When a change in temperature is desired.

1 **Press the ⌃ or ⌄ button.**

■ Each time the ⌃ button is pushed, the switch over occurs in the following order –6 → –5 → ..... –1 → ±0 → +1 ..... +6.
When +6 is indicatored, even if the ⌃ button is pushed, the indicator does not change.

■ Each time the ⌄ button is pushed, the switch over occurs in the following order +6 → +5 → ..... +1 → ±0 → –1 ..... –6.
When –6 is indicatored, even if the ⌄ button is pushed, the indicator does not change.

COOL/HEAT/DRY/FAN mode operation procedure



Aim the remote control at the air conditioner.

1 **Press the ON/OFF button.**

2 **Press the MODE select button.**

Move the [■ mark] to the desirable operation position.

ZD, HD type: ❋ (Cool), ≋/☼ (Heat), ◊ (Dry)
CD type: ❋ (Cool), ≋/☼ (Fan), ◊ (Dry)

3 **Press the TEMP button.**

Press ⌃ or ⌄ button for the desired temperature.
Standard

COOL	26°C~28°C	HEAT	22°C~24°C	DRY	21°C~24°C	FAN	—

4 **Press the FAN SPEED button**

Set the air flow rate as desired.

Air flow direction adjustment procedure. Page 10

To stop:	Press the ON/OFF button.

Program changing procedure

Set the new program.

- The operation program can also be set or changed when the air conditioner is not in operation.

NOTE

- The air is not blown out during the operation. Page 17

Concerning high power operation

Pressing the high power button intensifies the operating power and initiates a powerful cooling or heating operation for 15 minutes continuously. The remote controller "HI POWER" illuminates but the wind capacity display is erased.

NOTE

- During the high power operation, the room temperature is not controlled. When it causes an excessive cooling or heating, press the high power button once more to cancel the high power operation.
- High power operation is not available during the dehumidifying operation.
- During ON timer operation, HI POWER operation will start when the ON time is reached.
- When the following operations are conducted HI POWER operation will be canceled.
  ① When the HI POWER button is pressed again.
  ② When the operation mode is changed.
  ③ When ECONOMY operation is conducted.

Concerning economy operation

Pressing the economy button initiates a soft operation with the power suppressed in order to avoid an excessive cooling or heating. The unit operates 1.5°C higher than the setting temperature for the weak wind capacity during cooling or 2.5°C lower than that during heating. A message "ECONO" is displayed on the remote controller. The wind capacity display is erased.

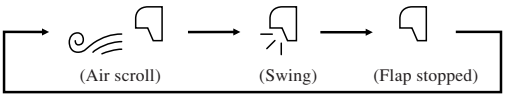
NOTE

- If the economy operation is selected while operating with the strong or medium wind capacity, it takes about 1 minute before the wind capacity drops to the weak level.
- When the following operations are conducted ECONOMY operation will be canceled.
  ① When the ECONOMY button is pressed again.
  ② When HI POWER operation is selected.

Air flow direction adjustment procedure

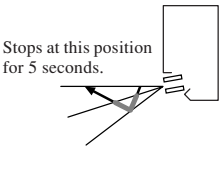
Adjusting up/down air flow direction

■ Up/down direction can be adjusted with the AIRFLOW button on the remote control. Each time when you press this button the mode changes as follows:
Change to AIRFLOW mode.



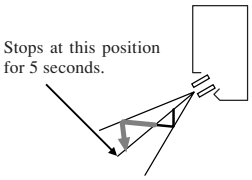
Air scroll

In COOL, DRY and FAN operation



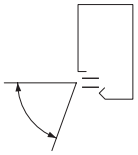
Thick line ▬: moves quickly
Thin line ▬: moves slowly

In HEAT operation



Thick line ▬: moves quickly
Thin line ▬: moves slowly

SWING FLAP



Flap moves up and down continuously.

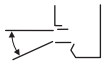
NOTE

- If the room temperature control (thermostat) switches to the heating mode or if the defrosting operation is on, the blow flap changes automatically to a horizontal position.
- If the heating operation has just started and the room temperature is still low, it may take a while before the flap moves to the above sway operation angle.
- The flap may stop at the tilted down-blow position during the "sway operation" in the heating mode.

MEMORY FLAP (FLAP STOPPED)

When you press the AIRFLOW button once while the flap is operating, it stops swinging at an angle.Since this angle is memorized in the micro-computer, the flap will automatically be set at this angle when the next operation is started.

- Recommended angle of the flap when stopping

HEAT		(Slant forward blowing)	COOL, DRY		(Horizontal blowing)

⚠ DANGER

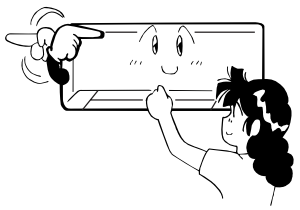
- Avoid constant airflow to the body for hours on end.

⚠ CAUTION

- When in COOL or DRY operation, do not operate for hours on end with the air flow blowing straight down. Otherwise, condensation may appear on the outlet grill and drip down.
- Do not try to adjust the flaps by hand, as the control angle may change or the flap may not close properly.

Adjusting left/right air flow direction

Adjust the direction by moving the left/right air flow fin by hand.



⚠ CAUTION

Please stop the air-conditioner when adjusting the air flow direction.

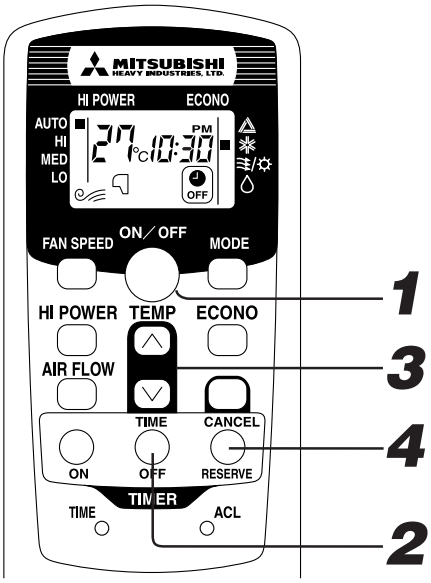
About FAN SPEED

■ You can choose the capacity of your air-conditioner when heating or cooling.

Operation capacity by your choice	FAN SPEED
Set automatically by microcomputer	AUTO
Powerful operation with high capacity	HI
Standard operation	MED
Energy-saving operation	LO

OFF-TIMER operation procedure

■ The unit stops automatically at the end of the set period of time.



Example: You wish it to stop PM 10:30.
If the air conditioner is not operating, aim the remote control at the air conditioner.

1 **Press the ON/OFF button.**

2 **Press the OFF TIMER button.**

OFF TIMER indicator (OFF) is blinking.

3 **Press the "▲ or ▼" button.**

Each time the ▲ button is pressed, the indicator is switched in the order of:

AM 0:00 → AM 0:10 → AM 0:20 → … → AM 1:00 → AM 1:10 → …

Each time the ▼ button is pressed, the indicator is switched in the order of:

AM 0:00 → PM 11:50 → PM 11:40 → … → PM 11:00 → PM 10:50 → …

Set at PM 10:30.

4 **Press the RESERVE button.**

The indication changes from blinking to steady lighting and the setting is complete. The timer light (yellow) is on.

⇓

- The unit stops at the end of the set period of time.

Changing of set time

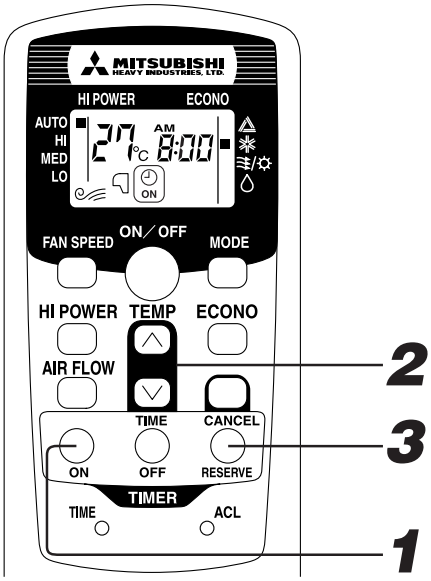
Set a new time by using the OFF TIMER button.

Releasing procedure

Press the CANCEL button to turn off the timer indicator.

ON-TIMER operation procedure

■ If the room temperature is at near optimum temperature at the set time, the operation starts 5 to 60 minutes before the set time. Page 12



Example: In the case you wish to bring the temperature to nearly set temperature in at AM 8:00.

1 **Press the ON TIMER button.**

ON TIMER indicator (ON) is blinking.

2 **Press the "▲ or ▼" button.**

Each time the ▲ button is pressed, the indicator is switched in the order of:

AM 0:00 → AM 0:10 → AM 0:20 → … → AM 1:00 → AM 1:10 → …

Each time the ▼ button is pressed, the indicator is switched in the order of:

AM 0:00 → PM 11:50 → PM 11:40 → … → PM 11:00 → PM 10:50 → …

Set at AM 8:00.

3 **Press the RESERVE button.**

The indication changes from blinking to steady lighting and the setting is complete. The timer light (yellow) is on.

⇓

- Operation starts 5 to 60 minutes before the set time.
- The TIMER light goes out at the set time.

Changing of set time

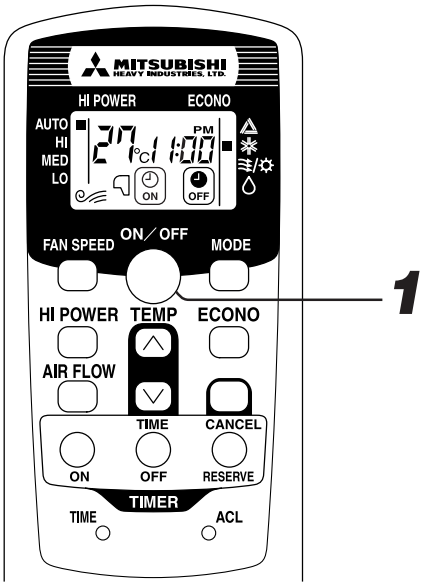
Set a new time by using the ON TIMER button.

Releasing procedure

Press the CANCEL button to turn off the timer indicator.

PROGRAM TIMER operation procedure

■ The timer operations that consist of the combination of the timer being set at both on and off. Once this has been set and operations started, operations will commence and end at the same time every day as long as the ON/OFF button is not pressed.



Example: When it is desired to stop at 10:30 PM, and then start operation at 8:00 AM, near the set temperature.

1 **Press the ON/OFF button.**

■ **OFF TIMER operation setting**

Set by the procedures on page 11.

Set to PM 10:30 (OFF).

■ **ON TIMER operation setting**

Set by the procedures on page 11.

Set to AM 8:00 (ON).

The setting of the lighting of the timer light (yellow) of this unit is complete.

The time will be displayed on the remote control unit. The display will change depending on the operational status.

ON → OFF (Stopped)　　ON ← OFF (Operating)

Changing of set time

Set a new time by using the OFF TIMER or ON TIMER button.

Releasing procedure

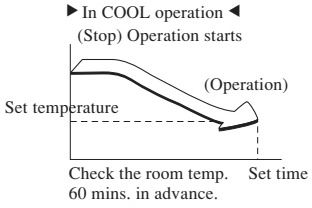
Press the CANCEL button to turn off the timer indicator.

About TIMER operation

About Amenity facilities

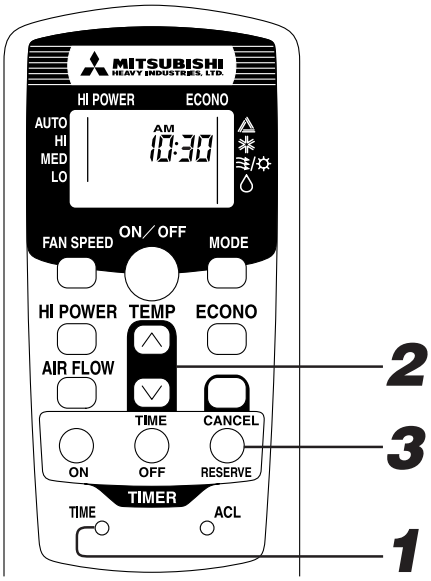
Amenity facilities enable to start the operation a little earlier, so that the room approaches optimum temperature at ON time when the operation is started by ON-TIMER.

- Mechanism
  The room temperature is checked 60 minutes before the timer is at ON. Depending on the temperature at that time, the operation starts 5 to 60 minutes before the timer is at ON.
- The Amenity facility only functions for COOL and HEAT operation mode (including AUTO). It does not work for DRY mode.



Present time setting procedure

■ When inserting the batteries, the present time is automatically set to PM 1:00.



Example: Set to AM 10:30.

1 **Press the TIME switch.**

Press with the tip of a ball pen, etc.
The time indicator blinks and can be set to the current time.

2 **Press the "▲ or ▼" button.**

(Set to AM 10:30)

3 **Press the RESERVE button.**

Press within 15 sec.!

The indication changes from blinking to steady lighting and the setting is complete.

NOTE

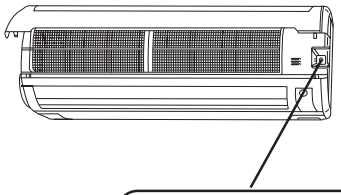
The timer is set on the basis of the present time, so please set it correctly.

Emergency run operation

- The unit ON/OFF button on the unit operates ON/OFF temporarily when the remote control is not used.

Operation program

- OPERATION MODE : AUTO
- FAN SPEED : AUTO
- AIR FLOW : AUTO



Unit ON/OFF button

- Operation starts by pressing the unit ON/OFF button; it stops if you press the button again.

Remote control handling procedure

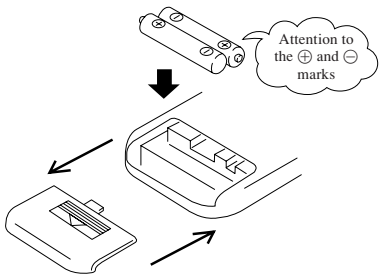
Replacing the batteries

The following cases signify exhausted batteries. Replace old batteries with new ones.

- Receiving beep is not emitted when a signal is transmitted.
- Indicator fades away.

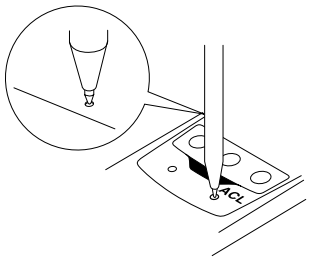
1 **Remove back lid and take out old batteries.**

2 **Insert new batteries. (SUM-4 or R03x2)**



3 **Close back lid.**

4 **Press the reset switch with the tip of a ballpoint pen.**



■ **When the indicator shows any abnormal condition, Press the reset switch with the tip of a ballpoint pen.**

NOTE

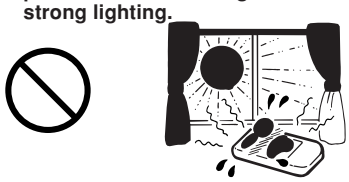
- Don't use old and new batteries together.
- Remove the batteries when the remote control is not used for a long period.
- The life of a battery conforming to JIS or IEC is 6 to 12 months with normal use. If used longer, or when an unspecified battery is used, liquid may leak from the battery, causing the remote control to malfunction.

- On the battery is printed its expected life. This may be shorter than that of the air-conditioner, depending on the date of manufacture.
- However, the battery may still be in working order after expiry of its nominal life.

Warning note for remote control handling

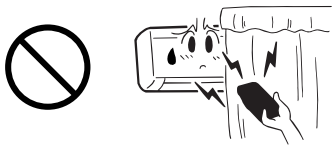
- **Don't go near high temperature places, such as an electric carpet or stove.**

- **Don't leave the remote control exposed to direct sunlight or other strong lighting.**



- **Don't drop the remote control. Handle with care.**

- **Don't put any obstructing obstacles between the remote control and the unit.**



- **Don't spill water etc on the remote control.**

- **Do not place heavy objects on the remote controller, or step on it.**

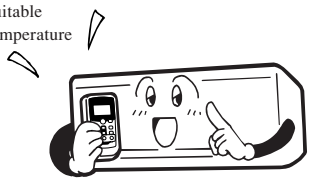
When the operation fails with the remote control

- Are the batteries running down? Page 13
  Replace the batteries with new ones and repeat the operation.
- If the operation still fails, handle as per emergency run operation.
  Contact your dealer. Page 13

Operating hints

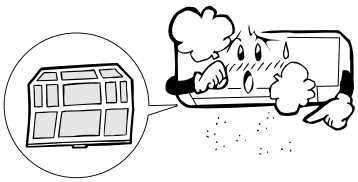
■ Please observe the following for the most economic and comfortable use of your unit.

Set a suitable room temperature.



Excessively high or low temperatures are not good for your health and waste electricity.

Clean the filters frequently.

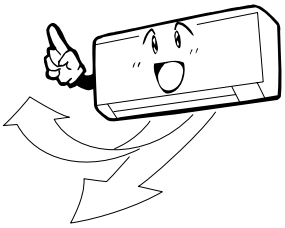


Clogged filters may block the air flow and cause less efficient operation.

Avoid direct sunlight and draught.

Cut out direct sunlight by drawing the curtains or blinds when cooling. Keep windows and doors shut, except when ventilating.

Adjust the airflow direction properly.

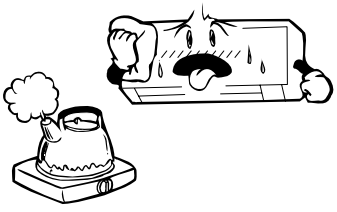


Adjust the up/down and left/right airflow to ensure a steady room temperature.

Operate the unit only when needed.

Use the timer properly to operate the unit only when needed.

Generate little heat when cooling.



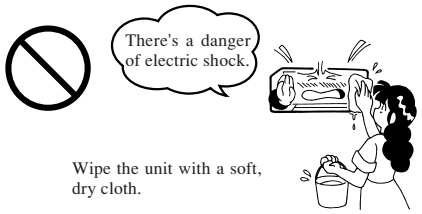
Keep heat sources out of the room as much as possible.

Maintenance

Before maintenance

Turn off the power switch.

Don't spill water.



Wipe the unit with a soft, dry cloth.

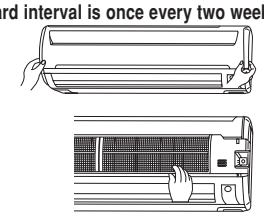
Don't use the following articles:

- Hot water (40°C or more)
  It may deform or discolour the unit.
- Petrol, paint thinner, benzine or polishing agents, etc.
  They may deform or scratch the unit.

During the operational season

Cleaning the air filter

Standard interval is once every two week



1 Remove the air filter

① Pull up to this side the air inlet grill.
② Lightly hold the knobs at both sides and lift a little to remove the grill to this side.

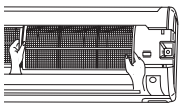
2 Cleaning

If the filter is very dirty, clean it with warm water (approx. 30°C), and dry it thoroughly.

⚠ CAUTION

- Don't clean the filters with boiling water.
- Don't dry them over an open flame.
- Pull them out gently.

3 Reinstall the air filter



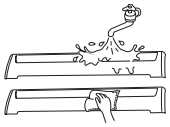
- Holding firmly the filter at both sides as shown at right and insert securely.
- Operating without putting back the air filters will make the unit dusty, and may cause damage.

Cleaning the unit

- Wipe the unit with a soft, dry cloth, or use a vacuum cleaner.
- If the unit is very dirty, wipe it with a cloth soaked in warm water.

Cleaning the air inlet grill

- Removal, installation of air inlet grill. Page 6
- The grill can be washed with water. After washing with water, wipe any moisture off the grill and dry out of direct sunlight.



NOTE

Cooling/heating is affected by an air filter clogged up with dust etc., and the operation noise becomes louder. It may also use extra electricity. Please clean the air filter at appropriate intervals.

At the end of the season

1 Set the temperature setting for approximately a half day at 30°C and perform the cooling operation.

Dry the inside of the unit.

2 Stop the unit and turn off the power switch.

The unit uses appr. 5W even when the power switch has been turned off during the off-season for safety or for saving energy.

3 Clean and reinstall the air filters.

4 Clean both the indoor and outdoor units.

5 Remove batteries from the remote control.

At the beginning of the season

1 Make certain that there are no obstacles blocking the air flow around the air intake and outlet openings of the indoor and outdoor units.

2 Check the installation base for corrosion or rust.

3 Ensure that nothing has snapped and that the earthed flex is not disconnected.

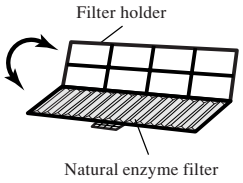
4 Ensure that the air filters are clean.

5 Turn on the power switch.

6 Insert batteries in the remote control.

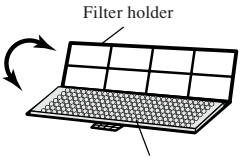
Installing, inspecting, and replacing the natural enzyme filter and the photocatalytic washable deodorizing filter

- Installing the natural enzyme filter and the photocatalytic washable deodorizing filter
  1. Open the air inlet grill and remove the air filters.
  2. Install the filter holders, with the natural enzyme filter and the photocatalytic washable deodorizing filter installed in the holders, in the air conditioner.
  3. Install the air filters and close the air inlet grill.

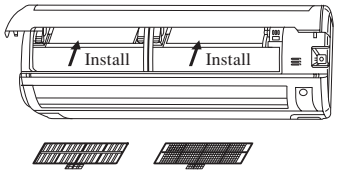


NOTE

The natural enzyme filter and the photocatalytic washable deodorizing filter may be installed on either the right or left side of the air conditioner.



- Inspecting and replacing the natural enzyme filter and the photocatalytic washable deodorizing filter
  1. Open the air inlet grill and remove the air filters.
  2. Remove the filter holders, with the natural enzyme filter and the photocatalytic washable deodorizing filter installed in the holders, from the air conditioner.
  3. Remove the natural enzyme filter from the filter holder and inspect the filter. Use a vacuum cleaner to remove any dust or dirt from the natural enzyme filter. Replace the natural enzyme filter if it cannot be cleaned or if it has been used for about 1 year.
     (The natural enzyme filter should be replaced after about 1 year of use. However, the actual replacement period may vary depending on the conditions in which the filter is used.)
     Remove the photocatalytic washable deodorizing filter from the filter holder and inspect the filter. Periodically, remove any dust or dirt from the photocatalytic washable deodorizing filter. If the photocatalytic washable deodorizing filter is particularly dirty, it may be washed with water. However, the filter is fragile so be sure to wash it installed in the filter holder to avoid damaging it. After washing the filter, place it in sunlight to dry. Placing the filter in sunlight revitalizes the deodorizing effect.
     (Do not dispose of the filter holders. They are reused.)
  4. Install the natural enzyme filter and the photocatalytic washable deodorizing filter in the filter holders, and then install the filter holders in the air conditioner.
  5. Install the air filters and close the air inlet grill.



For replacement natural enzyme filters and photocatalytic washable deodorizing filters, contact your dealer.

⚠ CAUTION

Do not expose natural enzyme filters to direct sunlight for an extended period. The bacteriolytic effect will be lost.

Item	Feature	Color
Natural enzyme filter	By using the work of oxygen, mold and bacteria on the filter are destroyed and the room air is kept clean.	Green
Photocatalytic washable deodorizing filter	Sources of odors on the filter are broken up, resulting in a deodorizing effect.	Orange

Has the unit been installed correctly?

Suitable installation position

- Is there any obstruction in front of the indoor unit, preventing proper ventilation and functioning?
- Don't install the unit in any of the following places:
  - Where there is a danger of leaking inflammable gases.
  - Where there is substantial splashing of oil.
- Malfunctioning due to corrosion may occur if the unit is installed in a spa where sulfide gases are generated, or in a seaside resort exposed to sea breezes. Contact your dealer.
- The air conditioner and remote control must be at least 1 metre away from a TV set or radio.
- Drain the dehumidified liquid from the indoor unit into a spot that drains well.

Pay attention to operating noises!

- When you install the unit, take care to choose a place that can comfortably stand the weight of the unit and does not increase the operating noise or vibration. If there is any likelihood that vibration may be transmitted through the house, fix the unit with the aid of vibration-proof pads between the unit and the fittings.
- Select a place where cold or hot air and operation noises from the indoor and outdoor units do not cause any inconvenience to your neighbours.
- Do not leave any obstacles near the outlet and inlet of the outdoor unit. This may cause malfunctioning and increased operating noise.
- If you hear an irregular noise during operation, contact your dealer.

Inspection and maintenance

Dependent upon service conditions and operating environment, the inside of the air conditioner may become dirty after a number of seasons' service (3 to 5 years). This will reduce performance. In addition to normal cleaning, we would recommend inspection and maintenance. (The air conditioner has a longer life without any trouble.)

- Contact your dealer, or any distributor, for inspection and maintenance. (There will be a charge for this service).
- We would recommend inspection and maintenance to be carried out during the off-season.
- If the supply cord of this appliance is damaged, it must only be replaced by a repair shop appointed by the manufacturer, because special purpose tools are required.

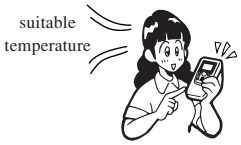
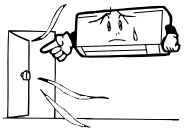
Troubleshooting

Please carry out the following checks before making a service call.

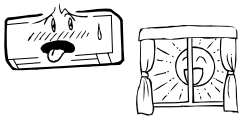
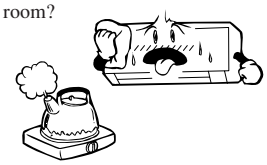
The air conditioner does not work at all.

Has the power switch been turned off?	Has the timer been set in the "ON" position?	Is there a power failure or a blown fuse?

Poor cooling or heating

Have you set the thermostat at a suitable temperature?	Is the air filter clean? (Not clogged?)	Did you leave any doors or windows open?
		

Poor cooling

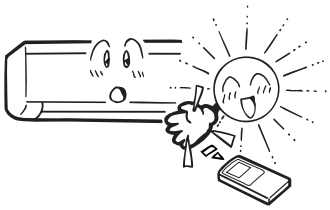
Is there any direct sunlight entering the room?	Is there a heat source in the room?	Are there too many people in the room?
		

If the air-conditioner does not operate properly after you have checked the left points, or if any doubt still exists after you have consulted page 17, or if things happen as shown on page 18, switch off the power and contact your dealer.

An alternative refrigerant (R410A) is used in this air-conditioner. When asking the dealer for service or inspection and maintenance, explain the dealer about this matter.

Please remember!

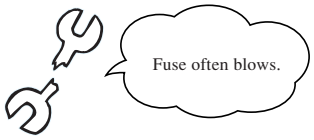
You cannot restart the unit immediately after you have stopped it. (RUN light is on) 	Restarting has been blocked for 3 minutes after you have stopped or after switching off the power during operation, to protect the unit. The three-minute protection timer in the microcomputer automatically starts up again.
Air is not blown out when starting the HEATING operation. RUN light blinks slowly (1.5 sec ON, 0.5 sec OFF)	Air flow has stopped to prevent blowing out of cold air until the indoor heat exchanger has warmed up. (2 to 5 min.) (HOT KEEP)
Air is not blown out for 5 to 10 min. at HEATING operation. RUN light blinks slowly (1.5 sec ON, 0.5 sec OFF)	When outdoor temperature is low and humidity is high, the unit sometimes performs defrosting automatically. Please wait. During defrosting, water or steam may escape from the outdoor unit.
Air is not blown out when starting the DRY operation. (RUN light is on)	The indoor fan may stop to prevent re-evaporation of dehumified moisture and to save energy.
Some steam escapes during COOL operation.	This may occur if the room's temperature and humidity are very high. It disappears as soon as the temperature and humidity decrease.

There is a slight smell.	Air blown out during operation may smell. This is caused by tobacco or cosmetics sticking to the unit.
You hear a slight gurgling sound.	This is caused by refrigerating liquid moving within the unit.
You hear a slight cracking sound.	This is caused by heat expansion or contraction.
You hear a hissing or clicking sound.	This is caused by the operation of the refrigerant control valves or electric components.
After a power cut, you cannot re-start, even if power has been restored, unless you have the power blackout auto restart function.	The memory circuit of the microcomputer has been wiped out. Use the remote control to start the operation again.
Remote control signals are not received.	Remote control signals may not be received if the signal receiver on the air conditioner is exposed to direct sunlight or other bright light. If so, cut out the sunlight or reduce the other light. 
Moisture may form on the air outlet grilles.	If the unit is operated for a long time in high humidity, moisture may form on the air outlet grilles and start dripping.
Whistling noise is heard from the outdoor unit. (SRK-ZD model only)	The noise means that the revolution speed is picking up on the compressor.

When to contact your distributor without delay

Turn off the power switch immediately and inform your dealer in any of the following situations:

The fuse or switch blows continuously.

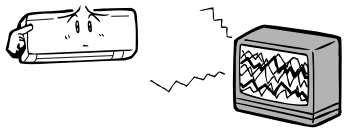


The cable becomes extremely hot.
The covering of the cable is cracked.

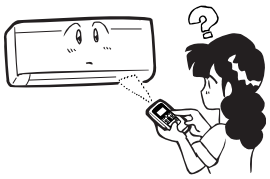
⚠ CAUTION

If the power cord becomes damaged, ask your dealer or a qualified engineer to install the replacement to avoid accidents.

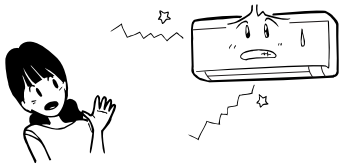
The TV, radio or other equipment starts to malfunction.



A switch does not activate properly.



You hear a strange noise during operation.



When faulty movement is observed when the ON/OFF button is pressed, even after pulling out the power plug and restarting the operation after 3 minutes, the faulty movement does not disappear.

The RUN and TIMER lights on the unit indication section blink quickly (0.5 sec. ON; 0.5 sec. OFF) and don't work.

Air conditioner operating conditions

■ Use within the following operational range. Operating outside of this range may result in the protection devices being activated, preventing the unit from working.

	Cooling operation	Heating operation
Outside temperature	Approximately 21 to 43 °C	Below approximately -5 to 21 °C
Inside temperature	Approximately 21 to 32 °C	Approximately 15 to 30 °C
Inside humidity	Below approximately 80% The long-term use of the unit with a humidity level exceeding 80% may result in condensation forming on the surface of the indoor unit, leading to water drips.	—

Power Blackout Auto Restart Function

■ **What is power blackout auto restart function?**

- Power blackout auto restart function is a function that records the operational status of the air-conditioner immediately prior to it being switched off by a power cut, and then automatically resumes operations at that point after the power has been restored.
- The following settings will be cancelled:
  ① Timer settings
  ② High-power operations

NOTE

- Ther power blackout auto restart function is set at on when the air-conditioner is shipped from the factory. Consult with your dealer if this function needs to be switched off.
- When power failure ocurrs, the timer setting is cancelled. Once power is resumed, reset the timer.

Characteristics of HEAT mode operation

Mechanism and capacity of HEAT mode operation

■ **Mechanism**

- The unit draws in heat from the cold outside air, transfers it indoors and heats the room. The heating capacity of the heat pump mechanism decreases when the outside air temperature gets colder.
- The hot air circulation system takes a while before warming up the room temperature.
- If the outside temperature becomes extremely low, it would be better to use an additional source of heating.

Defrosting

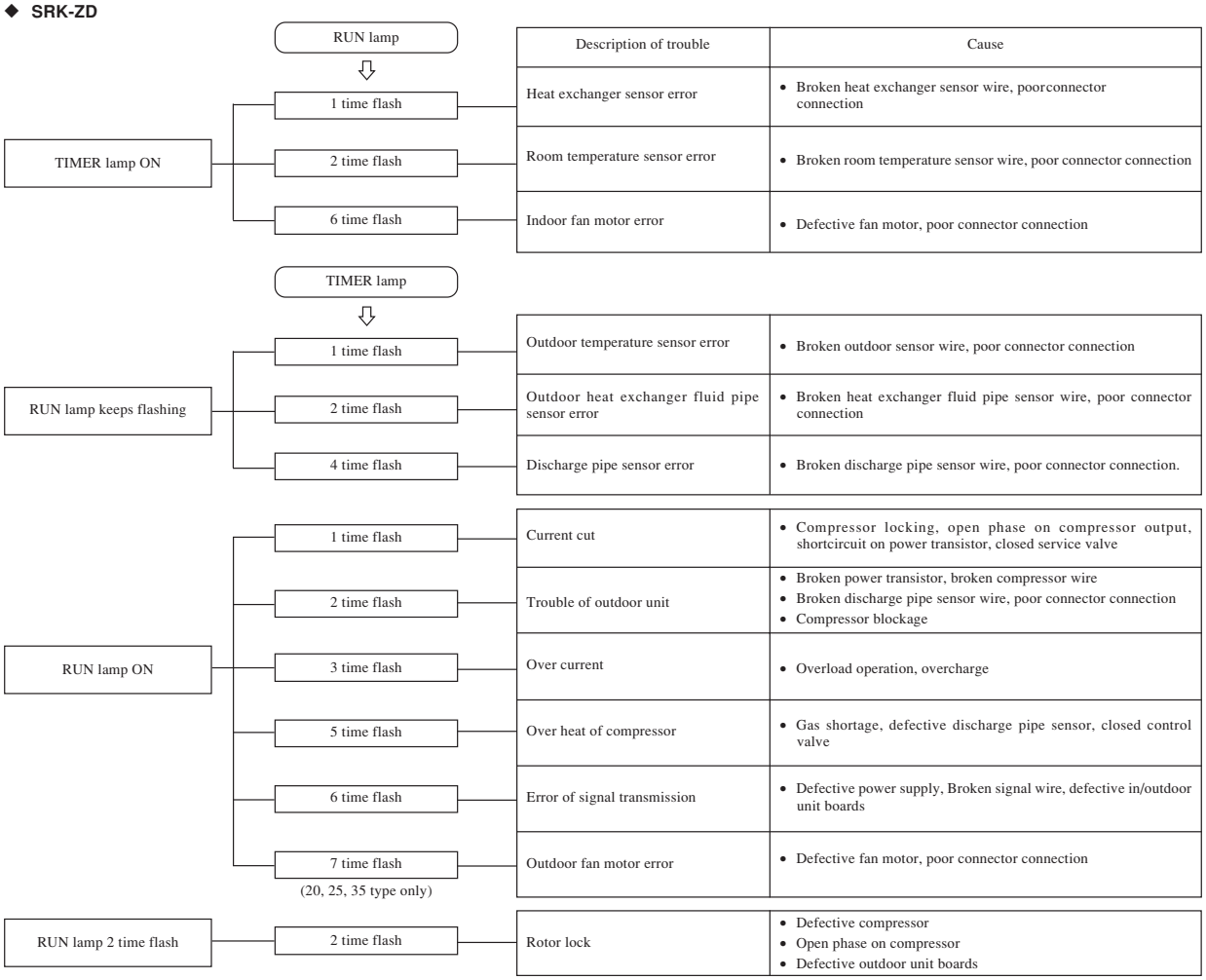
If the outside temperature becomes low and humidity is high, the heat exchanger in the outdoor unit may frost over, which prevents efficient heating.
If this happens, the automatic defroster is activated and during defrosting the heating operation stops for 5 to 10 minutes.

- Both indoor and outdoor fans stop and the RUN light (green) blinks slowly (1.5 sec. ON, 0.5 sec. OFF) during defrosting.
- The outdoor unit may give off some steam during defrosting. This is to help the defrosting process and is not a defect.
- The HEAT operation resumes as soon as defrosting has been completed.

Self diagnosis function

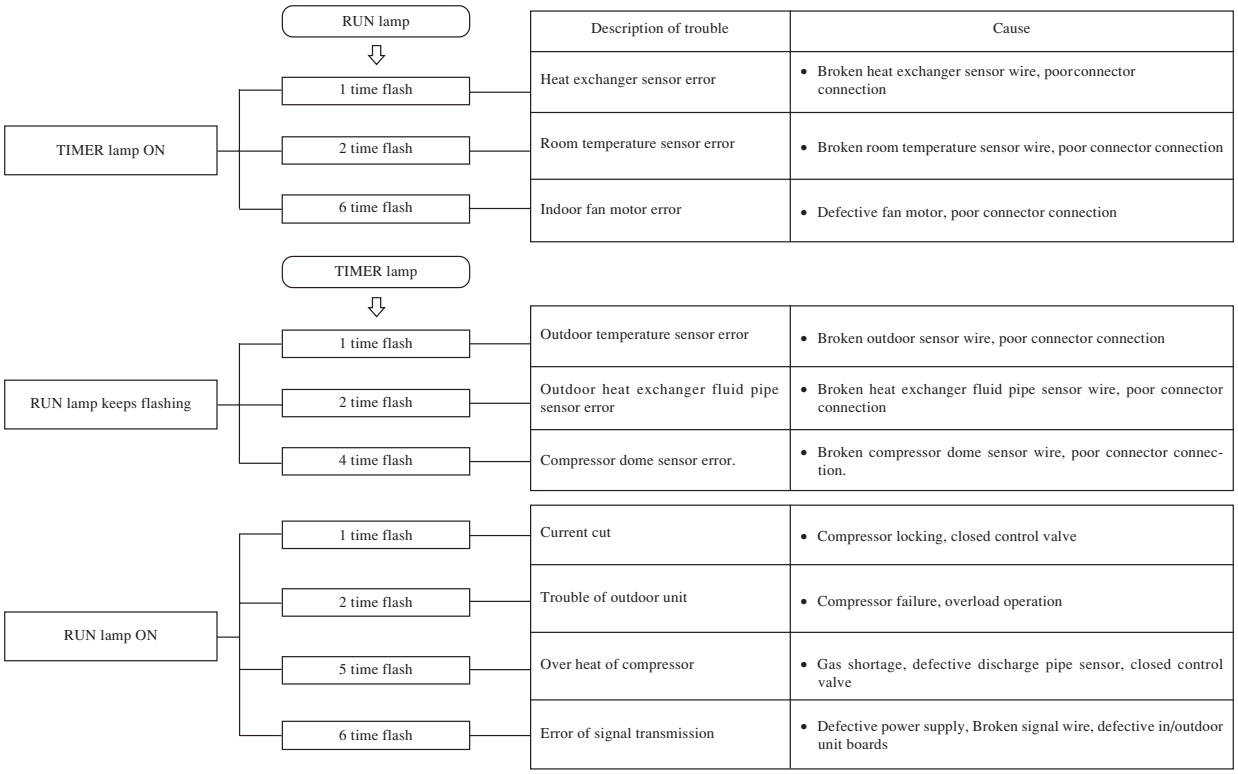
■ **We are constantly trying to do better service to our customers by installing such judges that show abnormality of each function as follows:**

◆ **SRK-ZD**



Description of trouble	Cause
Heat exchanger sensor error	• Broken heat exchanger sensor wire, poorconnector connection
Room temperature sensor error	• Broken room temperature sensor wire, poor connector connection
Indoor fan motor error	• Defective fan motor, poor connector connection
Outdoor temperature sensor error	• Broken outdoor sensor wire, poor connector connection
Outdoor heat exchanger fluid pipe sensor error	• Broken heat exchanger fluid pipe sensor wire, poor connector connection
Discharge pipe sensor error	• Broken discharge pipe sensor wire, poor connector connection.
Current cut	• Compressor locking, open phase on compressor output, shortcircuit on power transistor, closed service valve
Trouble of outdoor unit	• Broken power transistor, broken compressor wire • Broken discharge pipe sensor wire, poor connector connection • Compressor blockage
Over current	• Overload operation, overcharge
Over heat of compressor	• Gas shortage, defective discharge pipe sensor, closed control valve
Error of signal transmission	• Defective power supply, Broken signal wire, defective in/outdoor unit boards
Outdoor fan motor error	• Defective fan motor, poor connector connection
Rotor lock	• Defective compressor • Open phase on compressor • Defective outdoor unit boards

◆ **SRK-HD, SRK-CD**



Description of trouble	Cause
Heat exchanger sensor error	• Broken heat exchanger sensor wire, poorconnector connection
Room temperature sensor error	• Broken room temperature sensor wire, poor connector connection
Indoor fan motor error	• Defective fan motor, poor connector connection
Outdoor temperature sensor error	• Broken outdoor sensor wire, poor connector connection
Outdoor heat exchanger fluid pipe sensor error	• Broken heat exchanger fluid pipe sensor wire, poor connector connection
Compressor dome sensor error.	• Broken compressor dome sensor wire, poor connector connection.
Current cut	• Compressor locking, closed control valve
Trouble of outdoor unit	• Compressor failure, overload operation
Over heat of compressor	• Gas shortage, defective discharge pipe sensor, closed control valve
Error of signal transmission	• Defective power supply, Broken signal wire, defective in/outdoor unit boards

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